

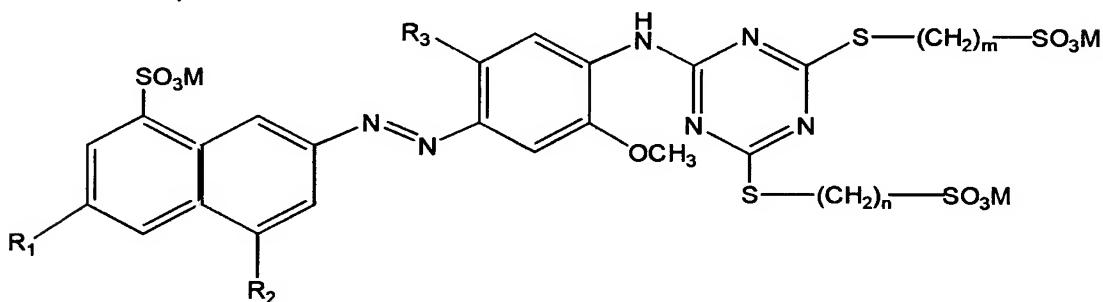
## DYE SETS AND INK SETS FOR INK-JET INK IMAGING

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### ABSTRACT OF THE DISCLOSURE

The present invention is drawn to dye sets for formulating ink-jet ink sets, and to specific ink sets. The dye set can comprise cyan colorant including a phthalocyanine dye; magenta colorant including a copper- or nickel-containing azo dye; and yellow colorant including at least one of Yellow 1189 dye and Yellow 104 dye yellow colorant having the structure Formula 1:

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wherein R<sub>1</sub> is H, SO<sub>3</sub>M, COOM, or SO<sub>2</sub>NH<sub>2</sub>; and wherein R<sub>2</sub> is H, SO<sub>3</sub>M, COOM, or SO<sub>2</sub>NH<sub>2</sub>; and wherein R<sub>3</sub> is H or CH<sub>3</sub>; and wherein n and m are 2, 3, 4, 5 or 6; and wherein M is H, Na, Li, K, ammonium, ammonium substituted with alkyl or combinations thereof. Optionally, a cyan triarylmethine dye such as Acid Blue 9, or another similar cyan dye, can be blended with the phthalocyanine dye; a rhodamine dye can be blended with the copper- or nickel- containing azo dye; 15 and/or Acid Yellow 17 or Acid Yellow 23 can be blended with Formula 1.

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